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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,588	10/17/2005	Shigeki Imafuku	38837	1501
52054 PEARNE & G	7590 02/23/2007 ORDON LLP	·	EXAMINER	
1801 EAST 9TH SRTEET SUITE 1200 CLEVELAND, OH 44114-3108			ARBES, CARL J	
			ART UNIT	PAPER NUMBER
	,		3729	
	<del></del>			
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/23/2007	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)
		10/553,588	IMAFUKU ET AL.
	Office Action Summary	Examiner	Art Unit
		C. J. Arbes	3729
Perio	The MAILING DATE of this communication app od for Reply	ears on the cover sheet with the c	orrespondence address
A	A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DAExtensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133):
Statı	JS .		
28	Responsive to communication(s) filed on <u>21 Ja</u> This action is <b>FINAL</b> . 2b) This  Since this application is in condition for allowan closed in accordance with the practice under <i>E</i>	action is non-final.	
Disp	osition of Claims		
5 6 7 8 <b>Appl</b>	Claim(s) 1-11 is/are pending in the application.  4a) Of the above claim(s) 9-11 is/are withdrawn  Claim(s) is/are allowed.  Claim(s) 1-8 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or ication Papers  The specification is objected to by the Examiner  The drawing(s) filed on 17 October 2005 is/are:  Applicant may not request that any objection to the or	from consideration.  election requirement.  r.  a)⊠ accepted or b)□ objected	•
11	Replacement drawing sheet(s) including the correcti ) The oath or declaration is objected to by the Ex-		
Prior	ity under 35 U.S.C. § 119		
	a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
1) 🛭 2) 🔲 3) 🖾	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>herein</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

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Applicants' Response to the Office's Restriction has been duly considered. After a careful review it is held that the Restriction is proper and is correct. In view of the holding and further in view of Applicants' Response thereto the Restriction is now <u>made</u>

<u>Final</u>. Applicants are therefore required to cancel all non-elected claims or take other appropriate action.

An Office Action on the merits of claims 1-8 now follows.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mimura et al (Pat No. 7,003,872 B2); hereinafter Mimura et al.

Mimura et al teach a component mounting apparatus comprising a mounting heads each of which is movable in the plane of the mounting surface, (cf. Col 5), a controller that controls the electronic mounting apparatus so as to avoid a mounting apparatus traversing in a path with a component at a height which would too low and would interfere with another component whose height is to high. The moving apparatus also has an image pick-up device or camera (161) (Cf. Col 7). A controller (181) controls the electronic component mounting apparatus ((101). At least the height information of the first electronic components and the second electronic components are stored. (Cf. Col. 8) The operation of mounting components onto the circuit board is similar to

conventional mounting apparatus except that the operation of preventing interference

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first electronic components and second electronic components. (Cf. Col. 8). It would have been obvious to provide that the apparatus had a a nozzle elevating means that can move the nozzles so that they would avoid an interference with another component if in fact Mimura et al do not expressly teach the specific interference avoidance that Applicants. As applied to claim 2 Mimura et al teach an image pick up camera (161) (Cf. Col 9) which would act substantially in the same manner as the camera recited in said claim 2 of the instant Application, if this camera does not read on the claimed camera in the instant Application. The detection of board marks is held to mere design choice inasmuch as Applicants advance no particular purpose therefore nor solve any specific problem therewith. Alternatively the limitation recited in said Claim 5 is held to have been obvious given the teaching of Mimura et al coupled with the ordinary skill in this art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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C. J. Arbes
Primary Examiner
Art Unit 3729